

AMENDMENTS TO THE CLAIMS:

Please cancel Claims 20 through 25, 27 through 35, and 37 through 40 without prejudice to or disclaimer of the subject matter recited therein. Please add Claims 41 through 86 to read as follows.

1-40. (Canceled)

Sub D 7
41. (New) A driver for use in a computing device having a TCP/IP stack, said driver encapsulating a first IP packet from the TCP/IP stack of the computing device within a second IP packet.

42. (New) A driver according to Claim 41, wherein said driver sends the second IP packet onto a network.

43. (New) A driver according to Claim 42, wherein the network is the Internet.

44. (New) A driver according to Claim 43, wherein an apparatus on the Internet receives the second IP packet and obtains the first IP packet from the second IP packet.

45. (New) A driver according to Claim 44, wherein the apparatus on the Internet sends a packet comprising data from the data field of the first IP packet onto an IP network.

Sub D 7
46. (New) A driver according to Claim 44, wherein the apparatus on the Internet sends the first IP packet onto an IP network.

47. (New) A driver according to Claim 46, wherein the first IP packet is addressed such that an IP packet sent by a second apparatus in response to the first IP packet is routed through the apparatus on the Internet.

48. (New) A driver according to Claim 42, wherein when the TCP/IP stack generates an ARP request as part of transmitting the first IP packet through said driver, said driver generates an ARP response to the ARP request.

49. (New) A driver according to Claim 43, wherein when the second IP packet is fragmented into a plurality of IP packets as a result of its packet size exceeding the MTU of the network, the plurality of IP packets are received by an apparatus on the Internet.

50. (New) A driver according to Claim 49, wherein the apparatus on the Internet reassembles the plurality of IP packets into the second IP packet.

51. (New) A driver according to Claim 50, wherein the apparatus on the Internet obtains the first IP packet from the second IP packet after reassembling the plurality of IP packets into the second IP packet.

sub D' 7
52. (New) A driver according to Claim 51, wherein the apparatus on the Internet sends the first IP packet onto a network.

53. (New) A driver according to Claim 49, wherein said driver fragments the second IP packet into a plurality of IP packets in response to the packet size of the second IP packet exceeding an MTU.

54. (New) A driver according to Claim 49, wherein the Internet is a cause of fragmentation of the second IP packet into a plurality of IP packets.

55. (New) A driver according to Claim 41, wherein the computing device is a personal computing device.

56. (New) A driver according to Claim 55, wherein the personal computing device is a personal computer.

57. (New) A driver according to Claim 41, wherein said driver interfaces to the TCP/IP stack of the computing device using an ethernet device driver interface.

58. (New) A driver according to Claim 41, wherein said driver interfaces to the TCP/IP stack of the computing device using a network driver interface specification.

542 D'7
59. (New) A driver according to Claim 41, wherein said driver configures the TCP/IP stack of the computing device to have an MTU of 1500 bytes.

60. (New) A driver for use in a computing device having a TCP/IP stack, said driver being configured to send an IP packet from the TCP/IP stack through an IP tunnel across a network.

61. (New) A driver according to Claim 60, wherein the network is the Internet.

62. (New) A driver according to Claim 60, wherein an apparatus on the network receives the IP packet through the IP tunnel.

63. (New) A driver according to Claim 62, wherein the apparatus on the network sends the received IP packet towards its destination via a network.

64. (New) A driver according to Claim 60, wherein the computing device is a personal computing device.

65. (New) A driver according to Claim 64, wherein the personal computing device is a personal computer.

Sub D7

66. (New) A driver for use in an apparatus, said driver comprising:
means for receiving from a TCP/IP stack of the apparatus a first IP
packet having as its source IP address a first IP address and having as its destination
IP address a second IP address;
means for placing the first IP packet within a second IP packet, the
second IP packet having as its destination IP address an IP address of a gateway
apparatus on the Internet; and
means for sending the second IP packet onto the Internet addressed to
the gateway apparatus,
wherein the gateway apparatus obtains the first IP packet from the
second IP packet.

67. (New) A driver according to Claim 66, wherein the gateway
apparatus sends a packet comprising data from the data field of the first IP packet onto
a network.

68. (New) A driver according to Claim 66, wherein the gateway
apparatus sends the first IP packet onto an IP network.

69. (New) A driver according to Claim 68, wherein the first IP packet is
addressed such that an IP packet sent by a second apparatus in response to the first IP
packet is routed through the gateway apparatus.

Sub D'7
70. (New) A driver according to Claim 68, wherein when the TCP/IP stack generates an ARP request as part of transmitting the first IP packet through said driver, said driver generates an ARP response to the ARP request.

71. (New) A driver according to Claim 68, wherein when the second IP packet is fragmented, by one or more of said driver and the Internet, into a plurality of IP packets as a result of its packet size, the plurality of IP packets are received by the gateway apparatus.

C'
72. (New) A driver according to Claim 71, wherein said driver fragments the second IP packet into a plurality of IP packets in response to the packet size of the second IP packet exceeding an MTU.

73. (New) A driver according to Claim 71, wherein the Internet is a cause of fragmentation of the second IP packet into a plurality of IP packets.

74. (New) A driver according to Claim 71, wherein the gateway apparatus reassembles the plurality of IP packets into the second IP packet.

75. (New) A driver according to Claim 74, wherein the gateway apparatus obtains the first IP packet from the second IP packet after reassembling the plurality of IP packets into the second IP packet.

Sub D' 7

76. (New) An apparatus comprising:
an internet browser; and
a TCP/IP stack for use with said internet browser,
wherein said internet browser sends a packet across the Internet to a
second apparatus through (a) said TCP/IP stack, (b) a tunnel between said apparatus
and a gateway apparatus, and (c) means for transmitting packets from the gateway
apparatus to the second apparatus.

77. (New) An apparatus according to Claim 76, wherein the tunnel
comprises an IP tunnel, and wherein the means for transmitting packets from the
gateway apparatus to the second apparatus is an IP network.

78. (New) A personal computing device comprising:
a TCP/IP stack; and
a driver according to Claim 41.

79. (New) A personal computing device comprising:
a TCP/IP stack; and
a driver according to Claim 60.

80. (New) A personal computing device comprising:
a TCP/IP stack; and
a driver according to Claim 66.

81. (New) A driver according to Claim 46, wherein an internet browser running on the computing device accesses a server through the TCP/IP stack of the computing device which sends a request to the server by way of said driver and the apparatus on the Internet,

wherein the server is on the IP network onto which the apparatus on the Internet sends the first IP packet.

82. (New) A driver according to Claim 63, wherein an internet browser running on the computing device accesses a server through the TCP/IP stack of the computing device which sends a request to the server by way of said driver and the apparatus on the network.

83. (New) A driver according to Claim 66, wherein an internet browser running on the apparatus accesses a server through the TCP/IP stack of the apparatus which sends a request to the server by way of said driver and the gateway apparatus.

84. (New) A driver according to Claim 60, wherein said driver interfaces to the TCP/IP stack of the computing device using an ethernet device driver interface.

85. (New) A driver according to Claim 60, wherein said driver interfaces to the TCP/IP stack of the computing device using a network driver interface specification.

PATENT

Attorney Docket No.: PD-N94026G

Customer No.: 020991

sub D'7

86. (New) An apparatus according to Claim 76, wherein the connection between the gateway apparatus and the second apparatus is a network connection.
